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Graphics Software Engineer at Apple



- Apple



- University of Glasgow

Austin, Texas, United States · [Contact info](#)

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About

Recruiters: I am not currently considering a job change - thanks!

I am an enthusiastic and highly productive software engineer with 33 years of C and assembler experience on Macs, PCs and embedded systems. I have a track record as an excellent problem solver and extensive experience in system-level debug of particularly tricky problems. While my main professional interest is in design, development, test and documentation of well-architected software, I interact well with others and relish technical interaction whether that be in joint development projects with customers or in presenting training classes.

Specialties: C, C++, assembler (various - ARM, Motorola, Intel, Z80)

Digital TV embedded systems, MPEG2, H.264, DVB, ATSC, video and graphics processing.

18 years of ARM experience (ARM9, ARM11, CortexA8, CortexM3, CortexM4F).

Microcontroller systems and peripherals (UART, I2C, SSI, PWM, Ethernet, USB, CAN and QEI).

Middleware integration (OpenTV, HDI)

RTOS (pSOS, Nucleus, uCOS, FreeRTOS, embedded Linux)

Windows, (WIN32, MSVC, MFC, FLTK), DOS

Display systems, UI graphics and low level driver software.

API design and architecture.

System design and debug.

Customer project technical coordination.

Activity

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Dave Wilson commented on a post • 2w

Congratulations on the culmination of what I know was a lot of hard work!

Dave Wilson commented on a post • 11mo

You make me so proud!

Dave Wilson commented on a post • 1yr

Congratulations!

Show all comments →

Experience



Graphics Software Engineer

Apple · Full-time

Apr 2014 - Present · 10 yrs 8 mos

Lone Star Design Center, Austin, TX



Sole Proprietor

Dave Wilson Photography

2008 - Present · 16 yrs 11 mos

Austin, Texas Area

Photographer concentrating mainly on motorsport, rodeo, architecture and art subjects. Images are available for license or in print form via various...



Member of General Technical Staff

Texas Instruments - MCU Austin

May 2009 - Apr 2014 · 5 yrs

Austin, Texas Area

My job continues as before following TI's acquisition of Luminary Micro. I am working on ARM CortexM3 and M4-based "Stellaris" and "Tiv ...see more



Senior Member of Technical Staff

Luminary Micro Inc.

Aug 2007 - May 2009 · 1 yr 10 mos

Austin, Texas Area

Software development for ARM-based 32 bit microcontrollers.



Principal Software Engineer

Conexant Systems Inc.

Jan 1999 - Aug 2007 · 8 yrs 8 mos

Responsible for architecture definition, system integration and system-level debug on various digital television settop box projects using Conexant's...

Show all 8 experiences →

Education



University of Glasgow

B.Sc. (Hons) 1st Class, Physics and Electronic Engineering

Aug 1984 - May 1988

Activities and societies: University Newspaper Photographer
Choral Society

Volunteering



Software Mentor

FIRST

Sep 2011 - Present · 13 yrs 3 mos

Science and Technology

I was a software mentor for Spring Konstant (FRC 6357), Dripping Springs High School's robotics team, through October 2023. I've recently moved o...


Photography Group Mentor


Dripping Springs 4-H
Sep 2013 - Mar 2020 · 6 yrs 7 mos
Education


I mentored a group of middle and high school kids in photography, one of the project programs offered by the 4-H Club in Dripping Springs.

Skills

C

 Endorsed by Moses Isang who is highly skilled at this


 Endorsed by 11 colleagues at Texas Instruments

 21 endorsements

Embedded Systems

 Endorsed by Paul Kimelman and 16 others who are highly skilled at this

 Endorsed by 3 colleagues at Apple

 53 endorsements

Show all 32 skills →

Recommendations

Received Given



Sue Cozart · 3rd
Applications Engineering Manager at Intel Corporation
February 5, 2014, Sue worked with Dave on the same team

Dave is an incredibly sharp software engineer who happily embraces any challenge ahead of him. I have seen him tackle and solve many difficult problems. In addition, he enjoys writing and has clearly explained his work in many documents, conference presentation, and technical forum posts. Dave has a genuine concern for ensuring that customers get the information they need with clear direction. I have greatly enjoyed working with Dave.



Michael Galetzka · 3rd
Deputy Managing Director | National Cooperation of Research Fab Microelectronics Germany FMD and Fraunhofer Group for Microelectronics
September 15, 2010, Michael worked with Dave but they were at different companies

I worked with Dave on several embedded software projects for digital TV receivers. I always appreciated his dedicated and cooperative way of work. It was a pleasure for me to have this projects brought to success together with him both on-site in the lab or working together with some thousands of kilometers distance in between. And it was a nice time both professionally and personally.

Show all 7 received →

Publications

Migrating Software Projects from StellarisWare to TivaWare
Texas Instruments · Apr 1, 2013

Show publication ↗

With the rebranding of Luminary Micro's Stellaris parts as Texas Instrument Tiva devices and the associated changes in the StellarisWare SDK to derive Tiv: ...see more

"Minding your Ps & Qs: International Text Support on Small, MCU-based Systems"

DesignEast/Embedded Systems Conference, 2012 · Sep 18, 2012

A presentation and 20,000 word paper discussing the challenges of supporting the display of international character sets including Chinese, Japanese and Ko ...see more

Show all 7 publications →

Patents

Methods and systems for displaying interlaced video on non-interlaced monitors

US 6359654 · Issued Feb 12, 1997

See patent

This invention describes methods for improving the display of interlaced video sources on progressive scan monitors using low-cost PC hardware and software.

Other inventors

"Computer Workstation"

US 6707434 · Issued Oct 3, 1992

See patent

The rather wide-ranging title doesn't really help here! This patent relates to a method of negotiating video compression formats between parties in a videoconferencing...

Interests

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Texas Instruments

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Anthony Parsons  · 3rd
Solutions Lead at Distill Mobile Inc.


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NY/CA Lawyer, US Patent Attorney

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Cecilia Stiber
Assistant General Counsel and Assistant Secretary, Crane Co.

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Robert Hails
Patent Attorney at Baker & Hostetler [Partner]

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Naomi Birbach
IP Litigation Partner at Goodwin Procter LLP

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Sarah Hartman 
FemTech & HealthTech | Hospitality | Civil Litigator | Intellectual Property & Entertainment Litigator | Business-minded Problem Solver | Innovative...

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